

SEPARATE SOLIDIFICATION OF BUILD MATERIAL AND SUPPORT
MATERIAL IN SOLID FREEFORM FABRICATION SYSTEM

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ABSTRACT OF THE DISCLOSURE

The present invention is drawn to a solid freeform fabrication system for
10 producing a three-dimensional object. The system can include a dispensing
system and a curing system. The dispensing system can be adapted to
separately dispense build material and support material, wherein the build
material and the support material are adapted to contact one another at an
interface after being dispensed. The curing system can be adapted to harden
15 the build material after being dispensed but before the support material is
dispensed, wherein mixing between the build material and the support material
is inhibited at the interface.